

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	).	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,383		10/16/2003	Tomowaki Takahashi	116949 9783	
25944	7590	03/16/2005		EXAMINER	
		OGE, PLC	RUTLEDGE, DELLA J		
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER
				2851	
				DATE MAILED: 03/16/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

•							
	Application No.	Applicant(s)					
	10/685,383	TAKAHASHI, TOMOWAKI					
Office Action Summary	Examiner	Art Unit					
	D. Rutledge	2851					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repleted in the period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tin oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 17.1	November 2004.						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ Thi	s action is non-final.						
3) Since this application is in condition for allowa	S) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) <u>1-50</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdra	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>42-50</u> is/are allowed.	☑ Claim(s) <u>42-50</u> is/are allowed.						
6) Claim(s) <u>1,28 and 35</u> is/are rejected.	_						
· · · · · · · · · · · · · · · · · ·	·						
8) Claim(s) are subject to restriction and/o	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examin	er.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correct							
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)							
Notice of References Cited (PTO-892)  4) ☐ Interview Summary (PTO-413)							
Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date	Paper No(s)/Mail Da						

U.S. Patent and Trademark Offic PTOL-326 (Rev. 1-04) Application/Control Number: 10/685,383

Art Unit: 2851

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claim 1, 28, 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi (US 6,172,825).

The reference discloses a projection optical system for forming a reduced image on a first plane (location of the reticle R) onto a second plane (location of the wafer W). The optical system has six mirrors arranged such that the light reflected by the first mirror *M1* passes through the aperture stop *AS* and is then reflected by the second mirror *M2*. The exposure apparatus is shown in Fig. 2.

### Allowable Subject Matter

- 3. Claims 2-27, 29-34 and 36-41 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claims 42 50 are allowed.
- 5. The following is a statement of reasons for the indication of allowable subject matter: The Takahashi reference does not disclose at least the angle of incidence nor is the equation of claim 3 satisfied.

4 se -

Art Unit: 2851

## Response Data

Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. Rutledge whose telephone number is (571) 272-2127. The examiner can normally be reached on Mon - Thurs, 6:00 AM - 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571) 272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Rutledge Primary Examiner Art Unit 2851

dr 3/8/2005